

Innovate 2011 DevCamp

Magento Workshop 1

Customizing the Onepage Checkout

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Setup and Configuration

The workshop is designed to be followed on a Magento CE 1.6 Installation. For Innovate attendees a VirtualBox image is available that contains a preconfigured environment. If you prefer to use your own development environment, you may install the TGZ archive of the source and the DB dump.

The code for the hands-on labs is available in pre-baked snippets in a separate archive file for your convenience.

Workshop Resources:

- A. VirtualBox VM Image (includes all workshop assets)
Magento_Workshop.vdi
- B. Magento Workshop Files Archive (Magento, the pre-baked code and the DB-dump)
Magento_Workshop_Full.tgz
- C. Archive containing only the pre-baked code snippets
Magento_Workshop1_Code.tgz

Preparations with the Innovate VirtualBox Image:

- 1. Fire up the VirtualBox VM using the supplied disk image
- 2. Open the Firefox Browser (a shortcut button is on the desktop)
- 3. If the Demo Magento homepage doesn't load automatically please visit <http://workshop.dev/>
- 4. Open up the NetBeans IDE (there is a shortcut on the VM Desktop and in the toolbar)

Preparations without the Innovate VirtualBox Image:

- 1. Unpack the archive *Magento_Workshop_Full.tgz*.
- 2. Create a database and import the database dump *Magento_Workshop.sql* found in the archive.
- 3. Execute the SQL, replacing "your-domain.dev" with whatever your development domain is:

```
UPDATE core_config_data SET value="http://your-domain.dev/" WHERE path LIKE '%base_url';
```
- 4. Edit the settings in the file *magento/app/etc/local.xml* file to point to the imported database.
- 5. Visit the homepage of the Magento Installation to confirm all is working
- 6. Open the Magento Installation in the IDE of your choice
- 7. Log into the admin panel and navigate to "**System > Configuration**". Select "**Shipping Method**" on the left and make sure only one shipping method is enabled.

VirtualBox Image Authentication Credentials:

If you are using the VirtualBox VM you can use the following credentials:

Magento

Magento Frontend URL: `http://workshop.dev/`

Magento Admin URL: `http://workshop.dev/admin`

Magento Admin User: `admin`

Magento Admin Password: `magento123`

MySQL

PhpMyAdmin URL: `http://workshop.dev/phpmyadmin`

MySQL Root User: `root`

MySQL Root Password: `magento123`

Linux

VM User: `magento`

VM Password: `magento123`

Directory Structure

In the VirtualBox Image all files can be found at `/var/www/workshop`. A project has already been created for you in NetBeans.

Inside the workshop directory you have the following sub directories:

/magento

The Magento Application Code as well as the example modules

/onepage-checkout-workshop/Code

The pre-baked Code Snippets for the hands-on Labs

/onepage-checkout-workshop/Lab N

The Code as it is before the specified hands-on Lab begins

/onepage-checkout-workshop/Lab N finished

The Code as it is after the specified hands-on Lab

/performance-workshop/

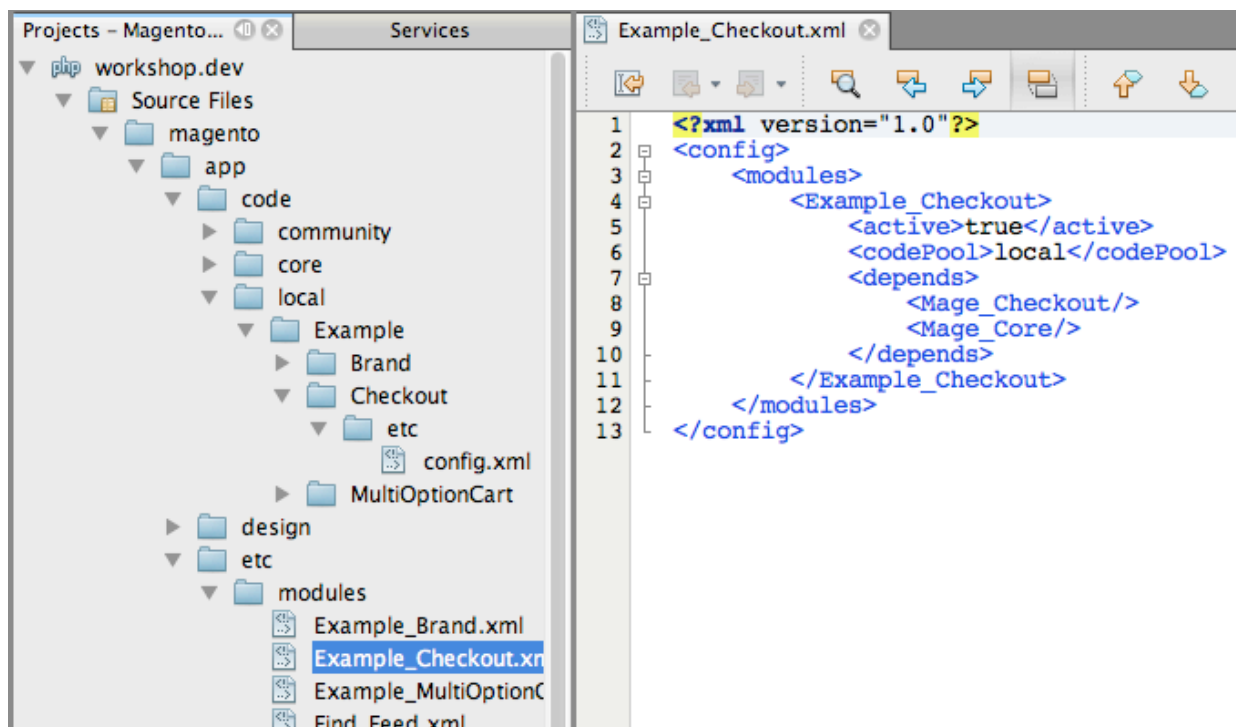
The Code for the other Innovate DevCamp Magento Workshop

Lab 01 - Create an empty Module

1. Open the IDE project
2. Create the file *magento/app/etc/modules/Example_Checkout.xml* and add the code block 01-01 as the contents of that file.

Code Block 01-01:

```
<?xml version="1.0"?>
<config>
    <modules>
        <Example_Checkout>
            <active>true</active>
            <codePool>local</codePool>
            <depends>
                <Mage_Checkout/>
                <Mage_Core/>
            </depends>
        </Example_Checkout>
    </modules>
</config>
```



3. Create the directory *magento/app/code/local/Example/Checkout/etc*. Please note the **capitalization** of the **directory names**.

4. Create the file `magento/app/code/local/Example/Checkout/etc/config.xml` and add the code block 01-02 as the contents of the file.

Code 01-02:

```
<?xml version="1.0"?>
<config>

</config>
```

Test the Code

Since the module doesn't do anything yet, we can only check if Magento recognizes it exists. Every time you make a change to a configuration file you must refresh the configuration cache to make it take effect.

Clear the Cache so Magento "sees" our module

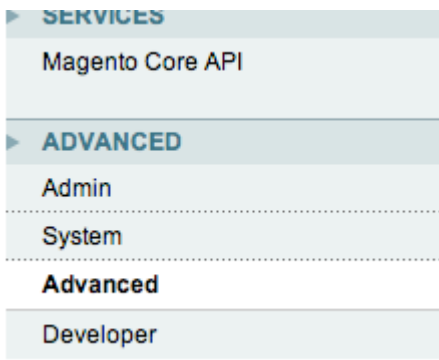
1. Log in to the admin panel at `http://workshop.dev/admin`
2. Navigate to "**System > Cache Management**"

The screenshot shows the Magento Admin Panel interface. At the top, there's a navigation bar with the Magento logo, 'Admin Panel', a search bar, and user information. Below this is a menu bar with various sections like Dashboard, Sales, Catalog, etc. The 'System' section is highlighted, and a dropdown menu is open, showing 'Cache Management' as the selected option. The main content area is titled 'Cache Storage Management' and contains a table with columns for 'Cache Type', 'Description', and 'Associated'. The 'Configuration' row is selected, and its checkbox is checked. To the right of the table, there's a 'Submit' button. Below the table, there's a section for 'Additional Cache Management' with buttons for 'Flush Catalog Images Cache' and 'Flush JavaScript/CSS Cache'.

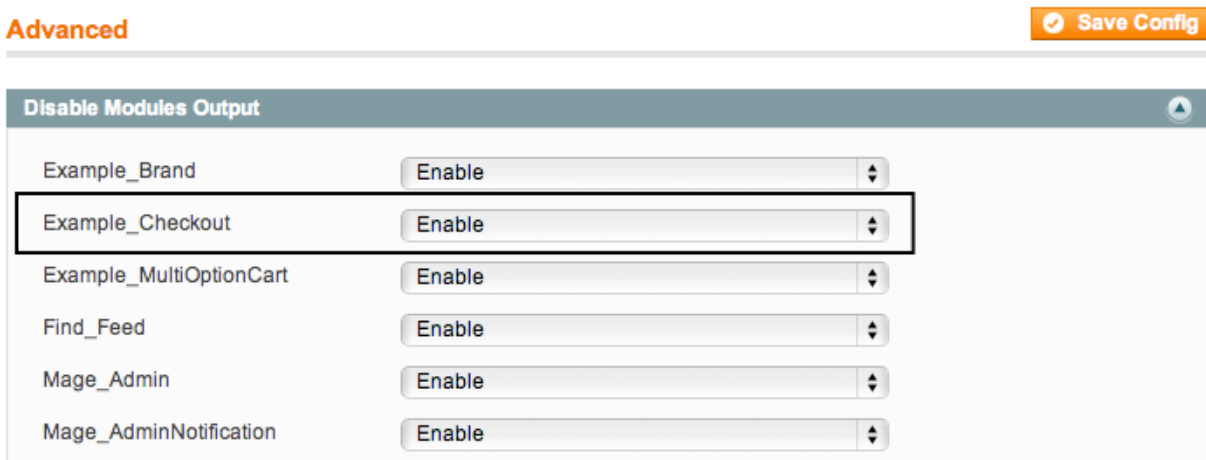
Cache Type	Description	Associated
<input checked="" type="checkbox"/> Configuration	System(config.xml, local.xml) and modules configuration files(config.xml).	CONFIG
<input type="checkbox"/> Layouts	Layout building instructions.	LAYOUT_C
<input type="checkbox"/> Blocks HTML output	Page blocks HTML.	BLOCK_H
<input type="checkbox"/> Translations	Translation files.	TRANSLAT
<input type="checkbox"/> Collections Data	Collection data files.	COLLECT
<input type="checkbox"/> EAV types and attributes	Entity types declaration cache.	EAV
<input type="checkbox"/> Web Services Configuration	Web Services definition files (api.xml).	CONFIG A

3. Select the checkbox in the top row marked **Configuration**
4. Click the **Submit** button to refresh the configuration cache

5. Navigate to the page “**System > Configuration**”
6. Select the section “**Advanced**” on the bottom left



7. Click on the blue title panel labeled “**Disable Module Output**” to expand it
8. Check our module **Example_Checkout** is listed



Since Example_Checkout is listed it means Magento is picking up our configuration.

Lab 02 - Add Code to hook in the Checkout

1. Add the bold code from block 02-01 inside the `<config>` node in the *magento/app/code/local/Example/Checkout/etc/config.xml* file.
Please note, there is **no whitespace** before or after the **text contents** of the `<Example_Checkout>` node.

Code 02-01:

```
<?xml version="1.0"?>
<config>
    <frontend>
        <routers>
            <checkout>
                <args>
                    <modules>
                        <Example_Checkout
before="Mage_Checkout">Example_Checkout</Example_Checkout>
                        </modules>
                    </args>
                </checkout>
            </routers>
        </frontend>
    </config>
```

2. Create the directory *magento/app/code/local/Example/Checkout/controllers*
Note the directory name "**controllers**" is plural and in all **lower case**.
3. Create the file
magento/app/code/local/Example/Checkout/controllers/OnepageController.php
and add the code block 02-02 as the contents.

Code 02-02:

```
<?php

require_once 'Mage/Checkout/controllers/OnepageController.php';
class Example_Checkout_OnepageController
    extends Mage_Checkout_OnepageController
{
}
}
```

Lab 03 - Create Methods to add our logic

1. Open the file
magento/app/code/local/Example/Checkout/controllers/OnepageController.php
2. Add the code block 03-01 into the class `Example_Checkout_OnepageController`.

Code 03-01:

```
public function saveBillingAction()
{
    parent::saveBillingAction();
    $this->_checkSkipShippingMethod();
}

public function saveShippingAction()
{
    parent::saveShippingAction();
    $this->_checkSkipShippingMethod();
}

protected function _checkSkipShippingMethod()
{
    $helper = Mage::helper('core');

    // Check the session hasn't expired
    $body = $this->getResponse()->getBody();
    if ($body)
    {
        $result = $helper->jsonDecode($this->getResponse()->getBody());
        if (array_key_exists('goto_section', (array)$result)
            && 'shipping_method' === $result['goto_section']
        )
        {
        }
    }
}
```

Test the Code

Currently we can only test the module by verifying it does not trigger an exception.

1. Clear the configuration cache (see Lab 1 for detailed instructions).
2. On the front end, add a product to the cart and proceed to the checkout.
3. If the checkout loads without errors your code is working.

The screenshot displays the Magento checkout interface. At the top, the Magento logo is on the left, and a search bar with the text 'Search entire store here...' is on the right. Below the search bar, a navigation bar contains links: 'Example Multioption Product', 'My Account', 'My Wishlist', 'My Cart (1 item)', 'Checkout', and 'Log In'. A language selector shows 'Your Language: English'. The main content area is titled 'Checkout' and features a progress bar with six steps: 1. Checkout Method (active), 2. Billing Information, 3. Shipping Information, 4. Shipping Method, 5. Payment Information, and 6. Order Review. The 'Checkout Method' step is divided into two columns. The left column, 'CHECKOUT AS A GUEST OR REGISTER', offers two options: 'Checkout as Guest' and 'Register'. Below these, a section titled 'Register and save time!' encourages registration with benefits like 'Fast and easy check out' and 'Easy access to your order history and status'. The right column, 'LOGIN', asks 'Already registered?' and provides a login form with fields for 'Email Address' (containing 'admin') and 'Password' (masked with dots). A red asterisk indicates required fields. At the bottom of the login section are links for 'Forgot your password?' and a 'Login' button. A 'Continue' button is located at the bottom of the registration section. On the right side of the checkout page, a 'YOUR CHECKOUT PROGRESS' sidebar lists the steps: 'Billing Address', 'Shipping Address', 'Shipping Method', and 'Payment Method'.

Lab 04 - Check the available Shipping Methods

1. Open the file
magento/app/code/local/Example/Checkout/controllers/OnepageController.php
2. Add the code from the block 04-01 into the inner `if()` section of the method `_checkSkipShippingMethod()`

Code 04-01:

```
$onepage = $this->getOnepage();  
$shippingMethods = $this->_getAvailableShippingMethods($onepage);  
if (count($shippingMethods) === 1)  
{  
}
```

3. Add the new method `_getAvailableShippingMethods()` from code block 04-02 into the class `Example_Checkout_OnepageController`.

Code 04-02:

```
protected function _getAvailableShippingMethods(  
    Mage_Checkout_Model_Type_Onepage $onepage)  
{  
    $address = $onepage->getQuote()->getShippingAddress();  
    $methods = array();  
    foreach ($address->getGroupedAllShippingRates() as $carrier)  
    {  
        foreach ($carrier as $rate)  
        {  
            $methods[] = $rate->getCode();  
        }  
    }  
    return $methods;  
}
```

Lab 05 - Select the Shipping Method and Continue

1. Add the code block 05-01 into the inner `if()` block in the method `_checkSkipShippingMethod()` in the file `magento/app/code/local/Example/Checkout/controllers/OnepageController.php`

Code 05-01:

```
$onepage->getQuote()->setTotalsCollectedFlag(false);
$onepage->saveShippingMethod($shippingMethods[0]);

$this->getLayout()->getUpdate()->setCacheId(null);

$result['goto_section'] = 'payment';
$result['update_section'] = array(
    'name' => 'payment-method',
    'html' => $this->_getPaymentMethodsHtml()
);
$result['allow_sections'] = array('shipping', 'shipping_method');

$onepage->getCheckout()
    ->setStepData('shipping_method', 'complete', true);

$this->getResponse()->setBody($helper->jsonEncode($result));
```

Test the Code

Now the module is complete we can check everything works as planned.

1. If you haven't done so yet, add a product to the cart and proceed to the checkout.
2. Select **Checkout as a Guest** or **Register**
3. Fill the **Billing Information** form. Select the **"Ship to this address"** option below the form and click the **Continue** button.
4. Check the next step is the **Payment Information** step and in the progress bar on the right **Flat Rate** is selected as the current shipping method.
If so the `saveBillingAction()` method works as expected.
5. Now check the `saveShippingAction()` method. Click on the header of the **Shipping Information** step to back up to that step.
6. Click the **Continue** button. Once again the Shipping Method step should be skipped and the **Payment Information** step should be visible.